



## SEQUENCE LISTING

<110> Arthur B. Raitano  
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 Mary Faris  
 Rene S. Hubert  
 Steve Chappell Mitchell  
 Douglas C. Saffran

<120> NOVEL G PROTEIN-COUPLED RECEPTOR  
 UP-REGULATED IN PROSTATE CANCER AND USES THEREOF

<130> 511582002410

<140> US 10/017,066  
<141> 2001-12-14

<150> US 09/680,728  
<150> 2000-10-05

<150> 60/157,902  
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agttcttca tg atg gtt gat ccc aat ggc aat gaa tcc agt gct aca tac 171  
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1 5 10

ttc atc cta ata ggc ctc cct ggt tta gaa gag gct cag ttc tgg ttg 219  
Phe Ile Leu Ile Gly Leu Pro Gly Leu Glu Ala Gln Phe Trp Leu  
15 20 25

gcc ttc cca ttg tgc tcc ctc tac ctt att gct gtt cta ggt aac ttg 267  
Ala Phe Pro Leu Cys Ser Leu Tyr Ile Ala Val Leu Gly Asn Leu  
30 35 40 45

aca atc atc tac att gtt cgg act gag cac agc ctg cat gag ccc atg 315  
Thr Ile Ile Tyr Ile Val Arg Thr Glu His Ser Leu His Glu Pro Met  
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tca tcc atg ccc aaa atg ctg gcc atc ttc tgg ttc aat tcc act acc Ser Ser Met Pro Lys Met Leu Ala Ile Phe Trp Phe Asn Ser Thr Thr	80	85	90	411
atc cag ttt gat gct tgt ctg cta cag att ttt gcc atc cac tcc tta Ile Gln Phe Asp Ala Cys Leu Leu Gln Ile Phe Ala Ile His Ser Leu	95	100	105	459
tct ggc atg gaa tcc aca gtg ctg ctg gcc atg gct ttt gac cgc tat Ser Gly Met Glu Ser Thr Val Leu Leu Ala Met Ala Phe Asp Arg Tyr	110	115	120	507
gtg gcc atc tgt cac cca ctg cgc cat gcc aca gta ctt acg ttg cct Val Ala Ile Cys His Pro Leu Arg His Ala Thr Val Leu Thr Leu Pro	130	135	140	555
cgt gtc acc aaa att ggt gtg gct gtc gtg cgg ggg gct gca ctg Arg Val Thr Lys Ile Gly Val Ala Ala Val Val Arg Gly Ala Ala Leu	145	150	155	603
atg gca ccc ctt cct gtc ttc atc aag cag ctg ccc ttc tgc cgc tcc Met Ala Pro Leu Pro Val Phe Ile Lys Gln Leu Pro Phe Cys Arg Ser	160	165	170	651
aat atc ctt tcc cat tcc tac tgc cta cac caa gat gtc atg aag ctg Asn Ile Leu Ser His Ser Tyr Cys Leu His Gln Asp Val Met Lys Leu	175	180	185	699
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atc tcc gcc att ggc ctg gac tca ctt ctc atc tcc ttc tca tat ctg Ile Ser Ala Ile Gly Leu Asp Ser Leu Leu Ile Ser Phe Ser Tyr Leu	210	215	220	795
ctt att ctt aag act gtg ttg ggc ttg aca cgt gaa gac cag gcc aag Leu Ile Leu Lys Thr Val Leu Gly Leu Thr Arg Glu Ala Gln Ala Lys	225	230	235	843
gca ttt ggc act tgc gtc tct cat gtg tgt gct gtg ttc ata ttc tat Ala Phe Gly Thr Cys Val Ser His Val Cys Ala Val Phe Ile Phe Tyr	240	245	250	891
gta cct ttc att gga ttg tcc atg gtg cat cgc ttt agc aag cgg cgt Val Pro Phe Ile Gly Leu Ser Met Val His Arg Phe Ser Lys Arg Arg	255	260	265	939
gac tct ccg ctg ccc gtc atc ttg gcc aat atc tat ctg ctg gtt cct Asp Ser Pro Leu Pro Val Ile Leu Ala Asn Ile Tyr Leu Leu Val Pro	270	275	280	987
cct gtg ctc aac cca att gtc tat gga gtg aag aca aag gag att cga				1035

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 305 310 315

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Tyr Ile Val Arg Thr Glu His Ser Leu His Glu Pro Met Tyr Ile Phe  
50 55 60

Leu Cys Met Leu Ser Gly Ile Asp Ile Leu Ile Ser Thr Ser Ser Met  
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 Pro Lys Met Leu Ala Ile Phe Trp Phe Asn Ser Thr Thr Ile Gln Phe  
 85                    90                    95  
 Asp Ala Cys Leu Leu Gln Ile Phe Ala Ile His Ser Leu Ser Gly Met  
 100                  105                  110  
 Glu Ser Thr Val Leu Leu Ala Met Ala Phe Asp Arg Tyr Val Ala Ile  
 115                  120                  125  
 Cys His Pro Leu Arg His Ala Thr Val Leu Thr Leu Pro Arg Val Thr  
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 Lys Ile Gly Val Ala Ala Val Val Arg Gly Ala Ala Leu Met Ala Pro  
 145                  150                  155                  160  
 Leu Pro Val Phe Ile Lys Gln Leu Pro Phe Cys Arg Ser Asn Ile Leu  
 165                  170                  175  
 Ser His Ser Tyr Cys Leu His Gln Asp Val Met Lys Leu Ala Cys Asp  
 180                  185                  190  
 Asp Ile Arg Val Asn Val Val Tyr Gly Leu Ile Val Ile Ile Ser Ala  
 195                  200                  205  
 Ile Gly Leu Asp Ser Leu Leu Ile Ser Phe Ser Tyr Leu Leu Ile Leu  
 210                  215                  220  
 Lys Thr Val Leu Gly Leu Thr Arg Glu Ala Gln Ala Lys Ala Phe Gly  
 225                  230                  235                  240  
 Thr Cys Val Ser His Val Cys Ala Val Phe Ile Phe Tyr Val Pro Phe  
 245                  250                  255  
 Ile Gly Leu Ser Met Val His Arg Phe Ser Lys Arg Arg Asp Ser Pro  
 260                  265                  270  
 Leu Pro Val Ile Leu Ala Asn Ile Tyr Leu Leu Val Pro Pro Val Leu  
 275                  280                  285  
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 Met Tyr Ala Val Ala Leu Phe Gly Asn Cys Ile Val Val Phe Ile Val  
 35                  40                  45  
 Arg Thr Glu Arg Ser Leu His Ala Pro Met Tyr Leu Phe Leu Cys Met  
 50                  55                  60  
 Leu Ala Ala Ile Asp Leu Ala Leu Ser Thr Ser Thr Met Pro Lys Ile  
 65                  70                  75                  80  
 Leu Ala Leu Phe Trp Phe Asp Ser Arg Glu Ile Thr Phe Asp Ala Cys  
 85                  90                  95  
 Leu Ala Gln Met Phe Phe Ile His Ala Leu Ser Ala Ile Glu Ser Thr  
 100                 105                 110  
 Ile Leu Leu Ala Met Ala Phe Asp Arg Tyr Val Ala Ile Cys His Pro  
 115                 120                 125  
 Leu Arg His Ala Ala Val Leu Asn Asn Thr Val Thr Val Gln Ile Gly  
 130                 135                 140

Met Val Ala Leu Val Arg Gly Ser' Leu Phe Phe Pro Leu Pro Leu  
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 Leu Ile Lys Arg Leu Ala Phe Cys His Ser Asn Val Leu Ser His Ser  
 165                    170                    175  
 Tyr Cys Val His Gln Asp Val Met Lys Leu Ala Tyr Thr Asp Thr Leu  
 180                    185                    190  
 Pro Asn Val Val Tyr Gly Leu Thr Ala Ile Leu Leu Val Met Gly Val  
 195                    200                    205  
 Asp Val Met Phe Ile Ser Leu Ser Tyr Phe Leu Ile Ile Arg Ala Val  
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 Leu Gln Leu Pro Ser Lys Ser Glu Arg Ala Lys Ala Phe Gly Thr Cys  
 225                    230                    235                    240  
 Val Ser His Ile Gly Val Val Leu Ala Phe Tyr Val Pro Leu Ile Gly  
 245                    250                    255  
 Leu Ser Val Val His Arg Phe Gly Asn Ser Leu Asp Pro Ile Val His  
 260                    265                    270  
 Val Leu Met Gly Asp Val Tyr Leu Leu Leu Pro Pro Val Ile Asn Pro  
 275                    280                    285  
 Ile Ile Tyr Gly Ala Lys Thr Lys Gln Ile Arg Thr Arg Val Leu Ala  
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 Arg Thr Glu Arg Ser Leu His Ala Pro Met Tyr Leu Phe Leu Cys Met  
 50                    55                    60  
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 65                    70                    75                    80  
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 Ile Leu Leu Ala Met Ala Phe Asp Arg Tyr Val Ala Ile Cys His Pro  
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 130                  135                  140  
 Ile Val Ala Val Val Arg Gly Ser Leu Phe Phe Pro Leu Pro Leu  
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 165                  170                  175  
 Tyr Cys Val His Gln Asp Val Met Lys Leu Ala Tyr Ala Asp Thr Leu  
 180                  185                  190  
 Pro Asn Val Val Tyr Gly Leu Thr Ala Ile Leu Leu Val Met Gly Val  
 195                  200                  205  
 Asp Val Met Phe Ile Ser Leu Ser Tyr Phe Leu Ile Ile Arg Thr Val  
 210                  215                  220

Leu	Gln	Leu	Pro	Ser	Lys	Sér	Glu	Arg	Ala	Lys	Ala	Phe	Gly	Thr	Cys
225							230					235			240
Val	Ser	His	Ile	Gly	Val	Val	Leu	Ala	Phe	Tyr	Val	Pro	Leu	Ile	Gly
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Leu	Ser	Val	Val	His	Arg	Phe	Gly	Asn	Ser	Leu	His	Pro	Ile	Val	Arg
						260			265			270			
Val	Val	Met	Gly	Asp	Ile	Tyr	Leu	Leu	Leu	Pro	Pro	Val	Ile	Asn	Pro
						275			280			285			
Ile	Ile	Tyr	Gly	Ala	Lys	Thr	Lys	Gln	Ile	Arg	Thr	Arg	Val	Leu	Ala
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tataattatt	aatatcctga	ctaggttgt	gttggagggt	tattacttt	cattttacca										240
tgcatgtccaa	atctaaactg	cttctactga	tggtttacag	cattctgaga	taagaatgg										300
acatctagag	aacatttgcc	aaaggcctaa	gcacagcaaa	ggaaaataaa	cacagaatat										360
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tct	tat	atc	ttt	atc	ctt	cag	gca	gtt	cta	caa	ctc	tcc	tct	cag	gag
Ser	Tyr	Ile	Phe	Ile	Leu	Gln	Ala	Val	Leu	Gln	Leu	Ser	Ser	Gln	Glu
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20									25						30

gcc	cgc	tac	aaa	gca	ttt	ggg	aca	tgt	gtc	tct	cac	ata	ggt	gcc	atc
Ala	Arg	Tyr	Lys	Ala	Phe	Gly	Thr	Cys	Val	Ser	His	Ile	Gly	Ala	Ile
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35									40						45

tta	gcc	ttc	tac	aca	cct	tca	gtc	atc	tct	tca	gtc	atg	cac	cgt	gtg
Leu	Ala	Phe	Tyr	Thr	Pro	Ser	Val	Ile	Ser	Ser	Val	Met	His	Arg	Val
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50								55				60			

gcc	cgc	tgt	gtg	cca	cac	gtc	cac	att	ctc	ctc	gcc	aat	ttc	tat	
Ala	Arg	Cys	Ala	Val	Pro	His	Val	His	Ile	Leu	Ala	Asn	Phe	Tyr	
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65															80

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Leu Leu Phe Pro Pro Met Val Asn Pro Ile Ile Tyr Gly Val Lys Thr	
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Lys Gln Ile Arg Asp Ser Leu Gly Ser Ile Pro Glu Lys Gly Cys Val	
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Asn Arg Glu * Gly Ile Ser Gly Lys Arg Val Gly Pro Ser Glu Cys	
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Cys Ser Gly Pro Gly Leu Cys * Glu * Met Gly Pro Arg Leu His	
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Val * Phe Phe Ser Cys Ile Met Lys Arg Ile Asn Asp Val Leu Lys	
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Ala Arg Tyr Lys Ala Phe Gly Thr Cys Val Ser His Ile Gly Ala Ile  
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50 55 60  
Ala Arg Cys Ala Val Pro His Val His Ile Leu Leu Ala Asn Phe Tyr  
65 70 75 80  
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85 90 95  
Lys Gln Ile Arg Asp Ser Leu Gly Ser Ile Pro Glu Lys Gly Cys Val  
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Ser Gly Pro Gly Leu Cys Glu Met Gly Pro Arg Leu His Val Phe Phe  
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